Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE CLASS	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
				PROCEDURE		2TWC, 2HO2S, SFI	N/A				
2009	2009 9CLFE08.1222 8.1		LPG	Otto	HDO	21110, 211020, 011	IN/A				
	'ENGINE'S IDLE NS CONTROL		AD	DITIONAL IDLE EN	IISSIONS CON	TROL 5					
	N/A			N/	/A.						
ENGINE (ENGINE MODELS / CODES (rated power, in hp)										
8.1		8.1 / 1 /(325)									
* =not appli	icable; GVWR=gross vehic =horsepower; kw=kilowatt;	e weight rating; 13 CCF	₹xyz=Title 13, California Code	of Regulations, Sect	ion xyz; 40 CFR	86.abc≃Title 40, Code of Federal Regulation	ons, Section 86.abc;				
			ed netroleum das: FR5=R5% o	thenol fuel: MF=mult	ifuelaka RE=	bi fuel; DF=dual fuel; FF=flexible fuel;					
			ban bus; HDO=heavy duty Ot		- 100/ a.k.a.	or last, or -add tost, 11-lloxidia last,					
					J / SCR-N=select	live catalytic reduction - urea / ammonia;	Wil (prefix) =warm-				
up catalyst;	: DPF=diesel particulate filt	er: PTOX=periodic trap	oxidizer: HO2S/O2S=heated/c	oxvoen sensor: HAF:	S/AFS=heated/a	ir-fuel-ratio sensor (a.k.a., universal or linea	r oxygen sensor):				
super charg	e body fuel injection; SFI/M ger; CAC=charge air coole: Jule; EM=engine modificati	: EGR / EGR-C=exhaus	st gas recirculation / cooled EG	line injection; GCAR iR; PAIR/AIR≃pulsed	B=gaseous carb d/secondary air ir	uretor; IDI/DDI≒ndirect/direct diesel injecti njection; SPL=smoke puff limiter; ECM/PC	on; TC/SC=turbo/ M=engine/powertrain				
ESS=er	ngine shuldown system (pe R 1956.8(a)(6)(D); Exemp	13 CCR 1956.8(a)(6)(A =exempted per 13 CCR)(1); 30g=30 g/hr NOx (per 13 1956.8(a)(6)(B) or for CNG/LN	CCR 1956.8(a)(6)(C IG fuel systems; N/A	;); APS =internal	combustion auxiliary power system; ALT= (e.g., Otto engines and vehicles);	alternative method				
_ EMD=e	engine manufacturer diagno	stic system (13 CCR 19)	71); OBD=on-board diagnostic	system (13 CCR 19	71.1);						

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		со		PM ·		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	+
FEL	*	*	*	*	*	*	*	*		*	*	*
CERT	0.08	*	0.17	*	*	*	4.0	*	0.000	*	0.001	*
NTE	*		*		*		*		*		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this day of December 2008.

Annette Hebert, Chief

Mobile Source Operations Division